

**Flood Control Project Maintenance
Levee Inspections**

Fall 2016 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including DWR Erosion Survey

San Joaquin River Basin

RD2031	Overall LMA Rating	Total LMA Miles						
Reclamation District No. 2031 Elliot	U	13.05						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.36	0.53	2.48	19.00%	0.21			
Trim / Thin Trees	0.61		0.61	4.67%				
Encroachments	0.02		0.02	0.15%	0.72	0.07		
Animal Control	0.05		0.05	0.38%				
Slope Stability	0.01		0.01	0.08%				
Erosion / Bank Caving	0.04	0.03	0.16	1.23%				0.01
Flood Preparedness & Training	0.13		0.13	1.00%				
<i>Supplemental</i>								
DWR Erosion Survey	0.04		0.04	0.31%				
DWR UCIP Field Study					0.23			
<i>LMA Totals:</i>	1.26	0.56	3.50	26.81%	1.16	0.07	0.00	0.01
Unit No. 01 Stanislaus River LB	Overall Unit Rating	Total Unit Miles						
RD2031	U	7.07						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.35	0.53	2.47	34.92%	0.21			
Encroachments	0.02		0.02	0.28%	0.72	0.06		
Animal Control	0.05		0.05	0.71%				
Erosion / Bank Caving	0.04	0.03	0.16	2.26%				
<i>Supplemental</i>								
DWR Erosion Survey	0.04		0.04	0.57%				
DWR UCIP Field Study					0.16			
<i>Unit Totals:</i>	0.50	0.56	2.74	38.74%	1.09	0.06	0.00	0.00
Unit No. 02 San Joaquin River RB	Overall Unit Rating	Total Unit Miles						
RD2031	M	5.98						
Rated Item	Maintenance Deficiency				Enforcement		Design & System Obsolescence	
	M Miles	U Miles	M + 4U Miles	Threshold %	M Miles	U Miles	M Miles	U Miles
<i>Earthen Levee</i>								
Vegetation	0.01		0.01	0.17%				
Trim / Thin Trees	0.61		0.61	10.20%				
Encroachments						0.01		
Slope Stability	0.01		0.01	0.17%				
Erosion / Bank Caving								0.01
<i>Supplemental</i>								
DWR UCIP Field Study					0.07			
<i>Unit Totals:</i>	0.63	0.00	0.63	10.54%	0.07	0.01	0.00	0.01

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2016 Levee Inspection Results

Reclamation District No. 2031 Elliot

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)			U	

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 2031 Elliot

Waterway			Bank	Unit Miles
Unit No. 01 Stanislaus River			Left	7.07
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			U	
Date of Inspection	3/30/2016 - 3/30/2016		10/20/2016 - 10/20/2016	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Arvid Carlson RD2031 Elliott			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start		Rating **	M	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD2031_01_s_2013_5				
Comment Code					
Inspector Comment					
LMA has a flood response plan.					

No Photos

LM Start		Rating **	A	Issue No.	6
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD2031_01_s_2013_6				
Comment Code					
Inspector Comment					
Supplies available on-site.					

No Photos

LM Start		Rating **	A	Issue No.	12
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD2031_01_s_2013_12				
Comment Code					
Inspector Comment					
O&M Manual available at the office.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
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Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	0.00	Rating **	M	Issue No.	963
LM End	0.06	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.710001°	37.709951°
				-121.155391°	-121.156539°
DWR ID	DWR_RD2031_01_s_2012_963				
Comment Code					
FE : Fence					
Inspector Comment					
Wooden and steel livestock fence and debris limit access to slope.					

LM Start	0.00	Rating **	M	Issue No.	963 (cont)
LM End	0.06	Issue Type +	En	Location *	WS

Photo 1 of 2 : FA_2016_RD2031_307_963_20161024_00086.jpg



View of the fence on the waterside levee slope. Fall 2016

Photo 2 of 2 : FA_2016_RD2031_307_963_20160914_00040.jpg



Fall 2009 photo looking upstream at beginning of unit 1. Water side to the left.

LM Start	0.02	Rating **	U	Issue No.	122
LM End	0.02	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.710016 °	37.710016 °
				-121.155803 °	-121.155803 °
DWR ID	DWR_RD2031_01_s_2015_122				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD2031_307_122_20160914_00037.jpg



View of the pile of debris on the waterside levee slope.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

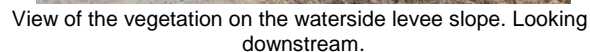
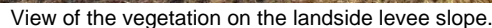
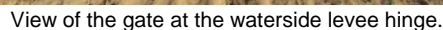
**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Reclamation District No. 2031 Elliot



**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	0.34	Rating **	M	Issue No.	7
LM End	0.52	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.706148°	37.704030°
				-121.157975°	-121.159653°
DWR ID	DWR_RD2031_01_s_2012_7				
Comment Code					
FE : Fence					
Inspector Comment					
Fence appears to be completed without CVFPB approval.					

LM Start	0.34	Rating **	M	Issue No.	7 (cont)
LM End	0.52	Issue Type +	En	Location *	WS

Photo 1 of 3 : FA_2016_RD2031_307_7_20160914_00009.jpg



05/10/2011 Fence on waterside prevents access to waterside slope.

Photo 2 of 3 : FA_2016_RD2031_307_7_20160914_00010.jpg



View of fence obstructing access to waterside slope. Facing upstream.

LM Start	0.34	Rating **	M	Issue No.	7 (cont)
LM End	0.52	Issue Type +	En	Location *	WS

Photo 3 of 3 : FA_2016_RD2031_307_7_20160914_00011.jpg



View of fence on waterside slope facing downstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	0.44	Rating **	M	Issue No.	14
LM End	0.53	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.704927 °	37.703788 °
				-121.158860 °	-121.159923 °
DWR ID	DWR_RD2031_01_f_2012_14				
Comment Code					
FE : Fence					
Inspector Comment					
It appears the fence was completed without CVFPB approval.					

Photo 1 of 2 : FA_2016_RD2031_307_14_20160914_00014.jpg



View of fence on landside levee shoulder obstructing access to landside slope. Facing upstream.

LM Start	0.44	Rating **	M	Issue No.	14 (cont)
LM End	0.53	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2016_RD2031_307_14_20160914_00015.jpg



View of fence on landside levee shoulder facing downstream.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	0.45	Rating **	M	Issue No.	1
LM End	0.48	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.704740 °	37.704740 °
				-121.159140 °	-121.159140 °
DWR ID					

Comment Code

Inspector Comment

07/25/2016: No significant change observed.
 08/28/2015: No significant change observed.
 07/31/2014: No significant change observed.
 09/10/2013: No significant change observed.
 07/18/2012: No significant change observed.
 08/18/2011: No significant change observed on site. Debris that blocks the irrigation outlet is visible.
 10/19/2010: No significant change observed on site. Sloughing of the bank is occurring adjacent to an irrigation outlet structure. There is moderate to heavy vegetation along the bank that is well established. Broken chunks and slabs of concrete are used as rip rap and line the outside of the irrigation outlet structure. However, much of the rip rap along the slope is sloughing and could possibly lead to future slope instability.
 08/05/2010: Recommended as a local maintenance issue, per CLRO.
 08/20/2009: No major change observed since last visit; 1 inch fissure cracks developing on the slope; rip rap is showing signs of sloughing; recommend as local maintenance issue; site was previously rated "U".
 2008: No change from previous year; irrigation outlet located on site; rip rap placed on river bank.
 09/06/2007: Near agricultural diversion; only 3' landside height differential. [2016 Site ID:RD2031U01RM0.48]

LM Start	0.45	Rating **	M	Issue No.	1 (cont)
LM End	0.48	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SJR2016_RD2031U01RM0.48_1.jpg



Direct view of the site.

Photo 2 of 2 : SJR2016_RD2031U01RM0.48_3.jpg



View of the current condition of the bank slope just above the irrigation outlet.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	0.48	Rating **	M	Issue No.	2
LM End	0.51	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.704385 °	37.704050 °
				-121.159217 °	-121.159578 °
DWR ID	DWR_RD2031_01_s_2012_2				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove vegetation 20 feet away from the levee crown.					

LM Start	0.48	Rating **	M	Issue No.	2 (cont)
LM End	0.51	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : FA_2016_RD2031_307_2_20161024_00087.jpg



View of the large tree branch on the waterside levee slope. Fall 2016

Photo 2 of 3 : FA_2016_RD2031_307_2_20160914_00004.jpg



View of vegetation on waterside slope. Facing upstream.

LM Start	0.48	Rating **	M	Issue No.	2 (cont)
LM End	0.51	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : FA_2016_RD2031_307_2_20160914_00005.jpg



10/26/2011 Updated photo of waterside vegetation.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Reclamation District No. 2031 Elliot

View of the concrete placed on the waterside levee slope.

View of the new coral at the landside levee slope and toe.

View of the material placed on the waterside levee slope to build up the levee and increase the levee crown. Spring 2014.

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Reclamation District No. 2031 Elliot

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

Reclamation District No. 2031 Elliot

View of the concrete debris stockpiled at the landside levee toe.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	0.72	Rating **	M	Issue No.	984
LM End	0.72	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.701912 °	37.701912 °
				-121.161642 °	-121.161642 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20046					
DS_ID:20440					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Alfalfa valve on the WS toe is damaged.					
FIELD_STRUCT_DESC: 30-inch corrugated metal irrigation pipe through the levee 5.0-feet below the crown. Flashboard slots in concrete headwall on the landward side. Distribution box with alfalfa valve on the waterward side. Installed by USACE, 1966. Replaced a 30-inch pipe at same location.					
FS Date: 9/11/2013					

Photo 1 of 2 : UCIP_FA_2016_20046_33946.jpg



Concrete headwall and pipe at concrete channel along landside shoulder of levee.

LM Start	0.72	Rating **	M	Issue No.	984 (cont)
LM End	0.72	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_20046_33945.jpg



Concrete headwall and damaged alfalfa valve on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	0.72	Rating **	M	Issue No.	972
LM End	0.76	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.701906 °	37.701370 °
				-121.161661 °	-121.161986 °
DWR ID	DWR_RD2031_01_s_2012_972				
Comment Code					
DT : Ditch					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD2031_307_972_20160914_00042.jpg



View of the ditch on landside levee toe, facing downstream.

LM Start	0.75	Rating **	M	Issue No.	985
LM End	0.75	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.701552 °	37.701552 °
				-121.161883 °	-121.161883 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20047					
DS_ID:20441					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: This pipe appears abandoned and if so, should be done so appropriately.					
FIELD_STRUCT_DESC: 15-inch corrugated metal pipe through levee 4.0 feet below crown. Flashboard slots on the landward side. Installed by USACE 1966. Originally included in the 1968 O&M manual.					
FS Date: 9/11/2013					

Photo 1 of 2 : UCIP_FA_2016_20047_33950.jpg



Damaged CMP pipe on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
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Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	0.75	Rating **	M	Issue No.	985 (cont)
LM End	0.75	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.701552°	37.701552°
				-121.161883°	-121.161883°
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20047					
DS_ID:20441					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: This pipe appears abandoned and if so, should be done so appropriately.					
FIELD_STRUCT_DESC: 15-inch corrugated metal pipe through levee 4.0 feet below crown. Flashboard slots on the landward side. Installed by USACE 1966. Originally included in the 1968 O&M manual.					
FS Date: 9/11/2013					

Photo 2 of 2 : UCIP_FA_2016_20047_33949.jpg



Hole in pipe at WS slope.

LM Start	0.77	Rating **	M	Issue No.	36
LM End	0.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.701177 °	37.701177 °
				-121.162055 °	-121.162055 °
DWR ID	DWR_RD2031_01_f_2012_36				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD2031_307_36_20160914_00021.jpg



View of rodent burrows on landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	0.80	Rating **	M	Issue No.	986
LM End	0.80	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.700853 °	37.700853 °
				-121.162349 °	-121.162349 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20049 DS_ID:20443 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe appears abandoned as WS slope is covered with soil. If abadoned, it should be done so properly. FIELD_STRUCT_DESC: 24-inch steel pipe through levee 2.0-feet below the crown. Concrete headwall on both sides of levee crown. FS Date: 9/11/2013					

Photo 1 of 2 : UCIP_FA_2016_20049_33956.jpg



Open pipe and headwall on LS slope.

LM Start	0.80	Rating **	M	Issue No.	986 (cont)
LM End	0.80	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_20049_33955.jpg



Pipe not filled with concrete.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2031 Elliot

View of the gate across levee crown.

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**Flood Control Project Maintenance
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Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	0.92	Rating **	M	Issue No.	997
LM End	0.92	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.699692 °	37.699692 °
				-121.163977 °	-121.163977 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:47158					
DS_ID:20444					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Indicator Found					
UCIP Comments: Need site visit by UCIP--Concrete headwall present on landward side toe. Need to coordinate with owner to determine if this headwall is for 24-inch pipe or if the structure is part of drainage system that could run parallel to levee.					
FIELD_STRUCT_DESC: 24-inch pipe through levee 3.5 feet below crown. Flap gate on the waterward end.					
FS Date: 9/10/2013					

Photo 1 of 2 : UCIP_FA_2016_47158_74940.jpg



Concrete structure located on landward side toe.

LM Start	0.92	Rating **	M	Issue No.	997 (cont)
LM End	0.92	Issue Type +	En	Location *	CR

Photo 2 of 2 : UCIP_FA_2016_47158_74941.jpg



Front view of concrete structure located on landward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2031 Elliot

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	1.16	Rating **	M	Issue No.	44
LM End	1.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.698848 °	37.698848 °
				-121.168088 °	-121.168088 °
DWR ID	DWR_RD2031_01_f_2016_44				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD2031_307_44_20161024_00093.jpg



View of the rodent holes on the landside levee slope.

LM Start	1.27	Rating **	M	Issue No.	987
LM End	1.27	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.699480 °	37.699480 °
				-121.169850 °	-121.169850 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20085					
DS_ID:20445					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe corroded through at distribution box. Appears abandoned and should be done so properly.					
FIELD_STRUCT_DESC: 1 of 2: 12-inch steel pipe through the levee 3.3-feet below the crown. Pump missing from pile structure on the riverbank. Concrete distribution box on the landward side. Installed by USACE, 1966. Also included in 1968 O&M manual.					
FS Date: 9/11/2013					

Photo 1 of 2 : UCIP_FA_2016_20085_34010.jpg



Concrete distribution box on LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	1.27	Rating **	M	Issue No.	987 (cont)
LM End	1.27	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.699480 °	37.699480 °
				-121.169850 °	-121.169850 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20085 DS_ID:20445 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipe corroded through at distribution box. Appears abandoned and should be done so properly. FIELD_STRUCT_DESC: 1 of 2: 12-inch steel pipe through the levee 3.3-feet below the crown. Pump missing from pile structure on the riverbank. Concrete distribution box on the landward side. Installed by USACE, 1966. Also included in 1968 O&M manual. FS Date: 9/11/2013					

Photo 2 of 2 : UCIP_FA_2016_20085_34009.jpg



Pump on pier on WS slope.

LM Start	1.49	Rating **	C	Issue No.	54
LM End	1.49	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.699554 °	37.699554 °
				-121.173417 °	-121.173417 °
DWR ID	DWR_RD2031_01_f_2015_54				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2031 Elliot

LM Start	1.56	Rating **	U	Issue No.	3 (cont)
LM End	1.56	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : FA_2016_RD2031_307_3_20160914_00006.jpg



View of the erosion site on landside slope, facing upstream.

Photo 2 of 2 : FA_2016_RD2031_307_3_20160914_00007.jpg



10/26/2011 Active erosion into the levee prism around irrigation standpipe.

LM Start	1.58	Rating **	U	Issue No.	8
LM End	1.58	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.698610 °	37.698610 °
				-121.174598 °	-121.174598 °
DWR ID	DWR_RD2031_01_s_2012_8				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Active erosion is occurring around irrigation inlet.					

Photo 1 of 1 : FA_2016_RD2031_307_8_20160914_00012.jpg



10/26/2011 Active erosion shown around irrigation inlet.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable	A : Acceptable N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable A/W : Acceptable but Monitor & Maintain	En : Enforcement

Reclamation District No. 2031 Elliot

10/26/2011 Active erosion into levee prism around irrigation inlet.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	1.78	Rating **	M	Issue No.	996
LM End	1.78	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.696958 °	37.696958 °
				-121.177464 °	-121.177464 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:41354
DS_ID:20470
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Silt buildup at inlet and outlet.
FIELD_STRUCT_DESC: 1 of 2: 24-inch corrugated metal pipe through the levee 9.5-feet below the crown. Concrete "U"-shaped headwalls on both ends. Flap gate on the waterward end. Installed by USACE, 1966. Also included in the 1968 O&M manual.
FS Date: 9/11/2013

LM Start	1.78	Rating **	M	Issue No.	996 (cont)
LM End	1.78	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_41354_34034.jpg



Concrete headwall on WS toe.

Photo 2 of 2 : UCIP_FA_2016_41354_34033.jpg



Concrete headwall on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	1.78	Rating **	M	Issue No.	988
LM End	1.78	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.696943 °	37.696943 °
				-121.177470 °	-121.177470 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:20092
DS_ID:20447
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: Silt buildup at inlet and outlet.
FIELD_STRUCT_DESC: 2 of 2: 24-inch corrugated metal pipe through the levee 9.5-feet below the crown. Concrete "U"-shaped headwalls on both ends. Flap gate on the waterward end. Installed by USACE, 1966. Also included in the 1968 O&M manual.
FS Date: 9/11/2013

LM Start	1.78	Rating **	M	Issue No.	988 (cont)
LM End	1.78	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_20092_34041.jpg



Concrete U-shaped headwall on WS toe.

Photo 2 of 2 : UCIP_FA_2016_20092_34040.jpg



Concrete U-shaped headwall on LS toe.

*** Location**

LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Reclamation District No. 2031 Elliot

View of the hay bails at the waterside levee toe.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	1.86	Rating **	M	Issue No.	989
LM End	1.86	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.695737 °	37.695737 °
				-121.177533 °	-121.177533 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:20109
DS_ID:20448
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: If abandoned it should be done so properly if not, the pipe should be cleared of soil blockage.
FIELD_STRUCT_DESC: *ABANDONED* 24-inch pipe through levee 6.8 feet below crown. Concrete headwalls on both ends. Flap gate on the waterward end. Installed by USACE, 1966.
FS Date: 9/11/2013

LM Start	1.86	Rating **	M	Issue No.	989 (cont)
LM End	1.86	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_20109_34075.jpg



Concrete U-shaped headwall on WS toe.

Photo 2 of 2 : UCIP_FA_2016_20109_34074.jpg



Flapgate on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2031 Elliot

No Photos

View of the broken tree limb on the waterside levee slope.

View of the rodent holes on the waterside levee slope.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	2.15	Rating **	M	Issue No.	39
LM End	2.15	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.691687 °	37.691687 °
				-121.178285 °	-121.178285 °
DWR ID	DWR_RD2031_01_f_2012_39				
Comment Code					
CR : Crops					
Inspector Comment					
Hay bale on waterside levee slope.					

Photo 1 of 1 : FA_2016_RD2031_307_39_20160914_00023.jpg

View of hay bales at toe of levee on waterward side, facing downstream.
05/02/2012

LM Start	2.40	Rating **	M	Issue No.	53
LM End	2.44	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.688465 °	37.688064 °
				-121.179821 °	-121.180175 °
DWR ID	DWR_RD2031_01_s_2015_53				
Comment Code					
DE : Debris					
Inspector Comment					

Photo 1 of 2 : FA_2016_RD2031_307_53_20161024_00097.jpg



View of the debris at the landside levee toe.

LM Start	2.40	Rating **	M	Issue No.	53 (cont)
LM End	2.44	Issue Type +	En	Location *	LS

Photo 2 of 2 : FA_2016_RD2031_307_53_20161024_00098.jpg



View of another debris pile in close proximity of the previous photo.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	2.45	Rating **	M	Issue No.	998
LM End	2.45	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.687949 °	37.687949 °
				-121.180305 °	-121.180305 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50753
DS_ID:24669
EP_NO: N/A
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 11/16/2016 No access to WS due to cattle fence in place. Need to coordinate with property owner to obtain access on WS. Unable to find inlet on LS. Recommend internal inspection of crossing. Crossing has been downgraded from Urgent to Non-Urgent no signs of leaks where present on crown or slopes where pipe should be. (O. Magana - DWR UCIP)09/11/2013 Flapgate partially blocked by soil on WS toe. Good candidate for video inspection. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee at an unknown depth. Flapgate is located on the waterside (WS) toe. Pipe may originate at concrete distribution box on LS toe.
FS Date: 11/16/2016

LM Start	2.45	Rating **	M	Issue No.	998 (cont)
LM End	2.45	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_50753_39002.jpg



Flapgate and pipe visible on WS toe.

Photo 2 of 2 : UCIP_FA_2016_50753_39001.jpg



Flapgate partially blocked by soil on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	2.62	Rating **	M	Issue No.	45
LM End	2.62	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.687146 °	37.687146 °
				-121.183152 °	-121.183152 °
DWR ID	DWR_RD2031_01_f_2012_45				
Comment Code					
CR : Crops					
Inspector Comment					
Hay bale on waterside levee slope.					

Photo 1 of 1 : FA_2016_RD2031_307_45_20160914_00025.jpg



View of hay bales at toe of levee on waterward side, facing downstream.

LM Start	3.08	Rating **	M	Issue No.	990
LM End	3.08	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.688297 °	37.688297 °
				-121.190865 °	-121.190865 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20449					
DS_ID:20451					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe appears to be abandoned and if so should be done so properly.					
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal pipe through levee 14.0 feet below crown. Slide gate in 36-inch corrugated metal pipe riser on the waterward slope. Originally included in the 1968 O&M manual.					
FS Date: 9/11/2013					

Photo 1 of 2 : UCIP_FA_2016_20449_34506.jpg



Slide gate in CMP riser on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	3.08	Rating **	M	Issue No.	990 (cont)	
LM End	3.08	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.688297 °	37.688297 °	
				-121.190865 °	-121.190865 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20449						
DS_ID:20451						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe appears to be abandoned and if so should be done so properly.						
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal pipe through levee 14.0 feet below crown. Slide gate in 36-inch corrugated metal pipe riser on the waterward slope. Originally included in the 1968 O&M manual.						
FS Date: 9/11/2013						

Photo 2 of 2 : UCIP_FA_2016_20449_34505.jpg



Pipe not visible on LS toe.

LM Start	3.17	Rating **	M	Issue No.	55
LM End	3.28	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.689368 °	37.690829 °
				-121.191680 °	-121.192511 °
DWR ID	DWR_RD2031_01_f_2013_55				
Comment Code					
AT : Agricultural tilling					
Inspector Comment					
Landside levee toe has about 12 inch vertical cut.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	3.66	Rating **	M	Issue No.	995
LM End	3.66	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.689900 °	37.689900 °
				-121.198319 °	-121.198319 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:23064					
DS_ID:20478					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Good candidate for video inspection.					
FIELD_STRUCT_DESC: 24-inch CMP drainpipe through levee 5.5 feet below crown. Flapgate visilbe at WS toe. Originally included in the 1968 O&M manual.					
FS Date: 9/12/2013					

Photo 1 of 2 : UCIP_FA_2016_23064_39200.jpg



CMP pipe and flapgate visible at WS toe.

LM Start	3.66	Rating **	M	Issue No.	995 (cont)
LM End	3.66	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP_FA_2016_23064_39199.jpg



CMP pipe and flapgate visible at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	3.69	Rating **	M	Issue No.	992
LM End	3.69	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.689742 °	37.689742 °
				-121.198778 °	-121.198778 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22843 DS_ID:24672 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this possible crossing. FIELD_STRUCT_DESC: 4-inch steel irrigation line through the levee at unknown depth. Pipe visible between larger irrigation pipes below slant pump on WS slope. FS Date: 9/12/2013					

LM Start	3.69	Rating **	M	Issue No.	992 (cont)
LM End	3.69	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_22843_39015.jpg



Pipe visible between larger irrigation pipes below slant pump on WS slope.

Photo 2 of 2 : UCIP_FA_2016_22843_39014.jpg



Pipe visible between larger irrigation pipes below slant pump on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	3.69	Rating **	M	Issue No.	991
LM End	3.69	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.689739 °	37.689739 °
				-121.198790 °	-121.198790 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20667 DS_ID:20456 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Siphon breaker missing from LS shoulder. Fish screen and pipe end covered in debris that may cause damage to pipe. FIELD_STRUCT_DESC: 1 of 2: 20-inch steel irrigation pipe through levee 3.9 feet below crown. Slant pump in pump house mounted on piles on the berm. Siphon breaker in corrugated metal pipe riser on the landward shoulder. Service pole on the landward slope. 5'X5' concrete distribution box on LS toe with flapgate. Originally included in the 1968 O&M manual. FS Date: 9/12/2013					

LM Start	3.69	Rating **	M	Issue No.	991 (cont)
LM End	3.69	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_20667_34750.jpg



Concrete distribution box on LS slope.

Photo 2 of 2 : UCIP_FA_2016_20667_34749.jpg



Slant pump in pumphouse on WS berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	3.69	Rating **	M	Issue No.	993
LM End	3.69	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.689757 °	37.689757 °
				-121.198804 °	-121.198804 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22845					
DS_ID:24671					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: No permit identified for this possible crossing.					
FIELD_STRUCT_DESC: 2.5-inch galvanized iron irrigation line through the levee at unknown depth. Submersible pump at WS slope.					
FS Date: 9/12/2013					

LM Start	3.69	Rating **	M	Issue No.	993 (cont)
LM End	3.69	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_22845_39021.jpg



Pipe visible on WS of pumphouse.

Photo 2 of 2 : UCIP_FA_2016_22845_39020.jpg



Pipe and appurtenances visible on downstream side of and next to larger irrigation pipe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Reclamation District No. 2031 Elliot

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	3.78	Rating **	M	Issue No.	57
LM End	3.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.690302 °	37.690664 °
				-121.200232 °	-121.200549 °
DWR ID	DWR_RD2031_01_f_2015_57				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion at the landside levee toe.					

Photo 1 of 1 : FA_2016_RD2031_307_57_20160914_00033.jpg



View of the 18 inch vertical cut at the landside levee toe.

LM Start	4.40	Rating **	M	Issue No.	994
LM End	4.40	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.686500 °	37.686500 °
				-121.207900 °	-121.207900 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22846 DS_ID:24673 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this possible crossing. FIELD_STRUCT_DESC: 4-inch galvanized iron irrigation line visible on WS shoulder. May go through the levee at unknown depth. Vent on WS shoulder. FS Date: 9/12/2013					

Photo 1 of 2 : UCIP_FA_2016_22846_39023.jpg



Pipe and vent visible on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	4.40	Rating **	M	Issue No.	994 (cont)
LM End	4.40	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.686500 °	37.686500 °
				-121.207900 °	-121.207900 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22846 DS_ID:24673 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this possible crossing. FIELD_STRUCT_DESC: 4-inch galvanized iron irrigation line visible on WS shoulder. May go through the levee at unknown depth. Vent on WS shoulder. FS Date: 9/12/2013					

Photo 2 of 2 : UCIP_FA_2016_22846_39022.jpg



Pipe and vent visible on WS shoulder.

LM Start	4.50	Rating **	M	Issue No.	41
LM End	4.50	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.685268 °	37.685268 °
				-121.208380 °	-121.208380 °
DWR ID	DWR_RD2031_01_s_2012_41				
Comment Code					
V6 : Landscaping					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	4.52	Rating **	U	Issue No.	43
LM End	4.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.684988 °	37.684988 °
				-121.208366 °	-121.208366 °
DWR ID	DWR_RD2031_01_s _ 2016_43				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD2031_307_43_20160914_00024.jpg



View of the tall vegetation on the landside levee slope and toe.

LM Start	4.55	Rating **	M	Issue No.	982
LM End	4.75	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.684474 °	37.682167 °
				-121.208447 °	-121.209098 °
DWR ID	DWR_RD2031_01_s _ 2012_982				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Poplars and other landscaping at levee toe.					

No Photos

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Stanislaus River	Left	7.07	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	4.97	Rating **	M	Issue No.	983	
LM End	4.97	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.680103 °		37.680103 °
				-121.212016 °		-121.212016 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20688						
DS_ID:20461						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: CMP riser on WS slope is missing lid and may be a hazard.						
FIELD_STRUCT_DESC: 36-inch corrugated metal irrigation pipe through levee 11-feet below crown. Slide gate in 48-inch CMP riser on the waterward slope. 5'X5' Concrete distribution box 10 feet from the waterward toe. Underground irrigation system on the landside with concrete standpipes visible in field. Originally included in the 1968 O&M manual.						
FS Date: 9/12/2013						

LM Start	4.97	Rating **	M	Issue No.	983 (cont)
LM End	4.97	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP_FA_2016_20688_34799.jpg



Concrete standpipes visible in field off LS toe.

Photo 2 of 2 : UCIP_FA_2016_20688_34798.jpg



Slide gate in CMP riser on WS shoulder with concrete distribution box visible in background at WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2031 Elliot

View of the broken tree limb on the levee slope.

Page 40 of 40

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2016 Levee Inspection Results

Reclamation District No. 2031 Elliot

Waterway			Bank	Unit Miles
Unit No. 02 San Joaquin River			Right	5.98
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			M	
Date of Inspection	3/30/2016 - 4/6/2016		10/20/2016 - 10/20/2016	
DWR Inspector	Maksim Khashchuk		Maksim Khashchuk	
Accompanied By	Arvid Carlson RD2031 Elliott			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	0.24	Rating **	M	Issue No.	967
LM End	0.24	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.658595 °	37.658595 °
				-121.234410 °	-121.234410 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20708 DS_ID:20484 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Inlet filled with soil, and CMP riser on WS slope needs lid as it may be a hazard. FIELD_STRUCT_DESC: 48-inch corrugated metal pipe through levee 22.8 feet below crown. Slide gate in 5-foot diameter corrugated metal pipe riser on the waterward slope. Concrete "U" headwall on both ends. Flap gate on the waterward end. Originally included in the 1968 O&M manual. FS Date: 9/17/2013					

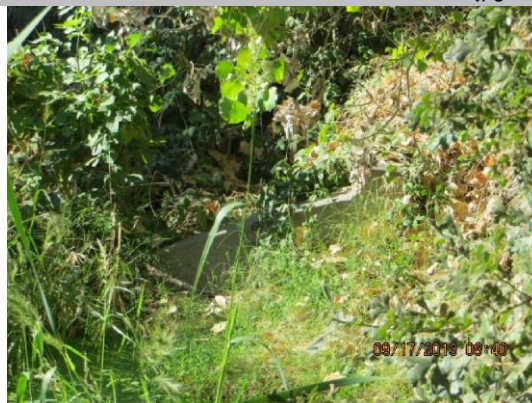
LM Start	0.24	Rating **	M	Issue No.	967 (cont)
LM End	0.24	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_FA_2016_20708_34834.jpg



Slide gate in CMP riser on WS slope.

Photo 2 of 2 : UCIP_FA_2016_20708_34833.jpg



Concrete headwall on LS toe at edge of pond.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	0.46	Rating **	A	Issue No.	16
LM End	0.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.655679 °	37.653843 °
				-121.234410 °	-121.229365 °
DWR ID	DWR_RD2031_02_f_2016_16				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
No unwanted vegetation on levee slope.					

Photo 1 of 1 : FA_2016_RD2031_308_16_20161024_00033.jpg



View of acceptable vegetation control on the levee slope.

LM Start	1.28	Rating **	C	Issue No.	8
LM End	1.28	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.649918 °	37.649918 °
				-121.221913 °	-121.221913 °
DWR ID	DWR_RD2031_02_s_2013_8				
Comment Code					
BU : Building					
Inspector Comment					
Permit No. 5793. LMA removed the dog kettles.					

No Photos

LM Start	1.35	Rating **	U	Issue No.	4
LM End	1.35	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.648898 °	37.648898 °
				-121.221621 °	-121.221621 °
DWR ID	DWR_RD2031_02_s_2012_4				
Comment Code					
BU : Building					
Inspector Comment					

Photo 1 of 1 : FA_2016_RD2031_308_4_20160914_00004.jpg



Small structure on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	1.41	Rating **	C	Issue No.	15
LM End	1.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.648080 °	37.648080 °
				-121.221031 °	-121.221031 °
DWR ID	DWR_RD2031_02_s_2013_15				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.42	Rating **	A/W	Issue No.	965
LM End	1.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.648005 °	37.647476 °
				-121.221039 °	-121.220766 °
DWR ID	DWR_RD2031_02_s_2012_965				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Wild rose bush on landside slope. LMA mowed the shrubs in fall 2016. Site must be maintained or shrubs will grow back.					

Photo 1 of 2 : FA_2016_RD2031_308_965_20161024_00035.jpg



View of wild rose emerging on levee slope. Fall 2016.

LM Start	1.42	Rating **	A/W	Issue No.	965 (cont)
LM End	1.46	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA_2016_RD2031_308_965_20160914_00010.jpg



Wild rose on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Reclamation District No. 2031 Elliot

Reclamation District No. 2031 Elliot

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	2.97	Rating **	M	Issue No.	966
LM End	3.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.637626 °	37.638301 °
				-121.207191 °	-121.196465 °
DWR ID	DWR_RD2031_02_s_2012_966				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Obstructive trees and vegetation along highway are on the landside slope of the levee.					

No Photos

LM Start	3.21	Rating **	M	Issue No.	970
LM End	3.21	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.638185 °	37.638185 °
				-121.202906 °	-121.202906 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20719 DS_ID:20492 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Annular space between 20-inch and 24-inch pipe not grouted. FIELD_STRUCT_DESC: 24-inch steel pipe through levee 8.0 feet below crown. Pump on pile structure in river. 20-inch steel pipe sleeved through 24-inch. 4'X11' concrete distribution box on LS toe. 2-inch electrical conduit at same location. Originally included in the 1968 O&M manual. FS Date: 9/17/2013					

Photo 1 of 2 : UCIP_FA_2016_20719_34860.jpg



24-inch with 20-inch sleeved through it.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	3.21	Rating **	M	Issue No.	970 (cont)
LM End	3.21	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.638185 °	37.638185 °
				-121.202906 °	-121.202906 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20719 DS_ID:20492 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Annular space between 20-inch and 24-inch pipe not grouted. FIELD_STRUCT_DESC: 24-inch steel pipe through levee 8.0 feet below crown. Pump on pile structure in river. 20-inch steel pipe sleeved through 24-inch. 4'X11' concrete distribution box on LS toe. 2-inch electrical conduit at same location. Originally included in the 1968 O&M manual. FS Date: 9/17/2013					

Photo 2 of 2 : UCIP_FA_2016_20719_34859.jpg



Concrete distribution box on LS slope.

LM Start	3.22	Rating **	M	Issue No.	969
LM End	3.22	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.638186 °	37.638186 °
				-121.202895 °	-121.202895 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20718					
DS_ID:20493					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe appears abandoned and if so should be done so properly.					
FIELD_STRUCT_DESC: 16-inch steel pipe through levee 7.5 feet below crown. Pump on pile structure in river. 4'X11' concrete distribution box on LS slope. 6'X6' concrete distribution box off LS toe. Originally included in the 1968 O&M manual.					
FS Date: 9/17/2013					

Photo 1 of 2 : UCIP_FA_2016_20718_34856.jpg



Pipe at right-abandoned.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2031 Elliot

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	4.29	Rating **	A/W	Issue No.	1
LM End	4.33	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.631716 °	37.631716 °
				-121.189370 °	-121.189370 °
DWR ID					

Comment Code

Inspector Comment

07/08/2016: The erosion in the berm was found further progressed toward levee toe.
 08/19/2015: No significant change observed.
 07/17/2014: The erosion has slightly expanded toward levee toe at two pocket locations.
 09/10/2013: The site has been visited. The erosion has expanded toward levee crest at two pocket locations.
 07/18/2012: No significant change observed on the site.
 08/18/2011: No significant change observed on the site. Dead trees and animal activities are visible. The closest point of the erosion site to the levee toe is about 100 ft.
 10/19/2010: There is active scouring occurring on the bank due to the nature of the flow and the lack of armor protection. There is also a fallen log immediately downstream of where the erosion has occurred and is protruding outward, possibly creating an eddy and scouring the bank. With the remaining 100-foot wide berm, the levee prism is not yet affected. However, the bank will continue to degrade, and eventually intrude into the levee prism if no protection is put in place. Erosion site is recommended for annual assessment and monitoring during flood events. [2016 Site ID:RD2031U02RM78.7]

LM Start	4.29	Rating **	A/W	Issue No.	1 (cont)
LM End	4.33	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SJR2016_RD2031U02RM78.7_1.jpg



Looking downstream of the erosion site.

Photo 2 of 3 : SJR2016_RD2031U02RM78.7_3.jpg



Close view of the pocket erosion.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	4.29	Rating **	A/W	Issue No.	1 (cont)	
LM End	4.33	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.631716 °	37.631716 °	
				-121.189370 °	-121.189370 °	
DWR ID						
Comment Code						
Inspector Comment						
07/08/2016: The erosion in the berm was found further progressed toward levee toe.						
08/19/2015: No significant change observed.						
07/17/2014: The erosion has slightly expanded toward levee toe at two pocket locations.						
09/10/2013: The site has been visited. The erosion has expanded toward levee crest at two pocket locations.						
07/18/2012: No significant change observed on the site.						
08/18/2011: No significant change observed on the site. Dead trees and animal activities are visible. The closest point of the erosion site to the levee toe is about 100 ft.						
10/19/2010: There is active scouring occurring on the bank due to the nature of the flow and the lack of armor protection. There is also a fallen log immediately downstream of where the erosion has occurred and is protruding outward, possibly creating an eddy and scouring the bank. With the remaining 100-foot wide berm, the levee prism is not yet affected. However, the bank will continue to degrade, and eventually intrude into the levee prism if no protection is put in place. Erosion site is recommended for annual assessment and monitoring during flood events. [2016 Site ID:RD2031U02RM78.7]						

Photo 3 of 3 : SJR2016_RD2031U02RM78.7_4.jpg



Close view of the erosion.

LM Start	4.70	Rating **	M	Issue No.	972	
LM End	4.70	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.630815 °		37.630815 °
				-121.182416 °		-121.182416 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22872						
DS_ID:24676						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: No permit identified for this crossing.						
FIELD_STRUCT_DESC: 16-inch PVC irrigation pipe through the levee						
6-feet below the crown. Headwall on LS toe.						
FS Date: 9/17/2013						

Photo 1 of 2 : UCIP_FA_2016_22872_39036.jpg



Concrete headwall at outlet on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2031 Elliot

* Location	** Rating	+ Issue Type
LS : Land Side	A : Acceptable	Ma : Maintenance Deficiency
N/A : Not Applicable	N : Not Inspected/Rated	Ob : Design & System Obsolescence
WS : Water Side	M : Minimally Acceptable	En : Enforcement
CR : Crown	U : Unacceptable	
	A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	5.63	Rating **	M	Issue No.	973 (cont)
LM End	5.63	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.630779 °	37.630779 °
				-121.165402 °	-121.165402 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22873 DS_ID:24677 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 24-inch PVC irrigation pipeline through levee 5.0-feet below crown. Slide gate at waterward shoulder. 6-inch steel riser on WS shoulder. FS Date: 9/17/2013					

Photo 2 of 2 : UCIP_FA_2016_22873_39037.jpg



Slide gate and vent at concrete headwall on canal at WS shoulder.

LM Start	5.93	Rating **	M	Issue No.	971
LM End	5.93	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.630760 °	37.630760 °
				-121.159951 °	-121.159951 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:20745 DS_ID:20503 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Gasline may not have enough cover. FIELD_STRUCT_DESC: 8-inch gas line through the levee 1.0-foot below the crown. Originally included in the 1968 O&M manual. Sign on LS toe, pipe visible at canal. FS Date: 9/17/2013					

Photo 1 of 2 : UCIP_FA_2016_20745_34961.jpg



Gasline marker on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2016

Reclamation District No. 2031 Elliot

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River	Right	5.98	10/20/2016 10/20/2016	Maksim Khashchuk

LM Start	5.93	Rating **	M	Issue No.	971 (cont)	
LM End	5.93	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.630760 °	37.630760 °	
				-121.159951 °	-121.159951 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:20745						
DS_ID:20503						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Gasline may not have enough cover.						
FIELD_STRUCT_DESC: 8-inch gas line through the levee 1.0-foot below the crown. Originally included in the 1968 O&M manual. Sign on LS toe, pipe visible at canal.						
FS Date: 9/17/2013						

Photo 2 of 2 : UCIP_FA_2016_20745_34960.jpg



Gasline visible at crossing.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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